TIP 2013 – Highlights

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An International Conference of Networking Experts

- A venue for several networking circles
 - ESNet / Internet2 Joint Techs
 - Asia-Pacific Advanced Network (APAN)
 - Tutorials
 - Workshops
- Some known faces (ANL, CMS, ...) and many new faces for me.

Key Notes

- Michael McRobbie Indiana University
 - Recounting history of Asian-Pacific Advanced Network
 - Data preservation in the digital era
 - Taking lessons from the Catholic Church for the preservation of classical texts
 - Maintain multiple copies of data
 - Associate copies with long lasting institutions the Universities
- Paul Vixie Internet Systems Consortium
 - Providing a historical DB of DNS entries
 - Access to DNS services from participants to fight cybercrime
- lan Foster
 - Globus Online New "Sharing" feature

Status talks on global and regional initiatives

- LHC Open Network Environment (LHCONE)
 - Point-to-point dynamic circuit services
 - Software defined network through Openflow
 - PerfSONAR for network monitoring
- ESNet and Internet 2 updates
 - Focus on 100G
- APAN
 - Medical / Agricultural Working Group
 - Research and Education
 - Board meeting
- IPv6
 - Mission critical for education
 - Readiness in APAN / NASA / ...
- Software defined network
 - OpenFlow / 100G / ...
- ...many more...

Closer to my world...

- OSG and LHC the modular dashboard
 - GCC is currently involved in the Use Cases WG, AuthN/Z WG, contributing GridFTP end-to-end data in perfSONAR format, ...

DYNES

- Deployment of the network hardware at 50+ sites for dynamic circuit
- NSF funds only the "instrument" Now dedicated funding for LHC integration
- Future opportunities for funding?
- Wait-and-see attitude for the evaluation of the API

100G

- ESNet 100G Testbed experiences w/ OpenFlow, Congestion Control, RDMA, Security, High-Speed middleware...
- 100G R&D at Fermilab
- Australia's research and education network (AARNet)
 - Deploying fast network for the Australian Square Kilometre Array Parhfinder
- Great conversations with Chris Kuun South African National Research Network (SANReN)
 - Discussed opportunities to host engineers at FNAL funded by SANReN

